



**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1 (Currently Amended). A ~~compositionally uniform~~ nanomaterial comprising chalcogenide ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 1,000,000 than 5.

2 (Original). The nanomaterial of claim 1 wherein the nanomaterial is non-stoichiometric.

3 (Original). The nanomaterial of claim 1 wherein the nanomaterial is stoichiometric.

4 (Withdrawn-Currently Amended). A metallic nanomaterial ~~with~~ having an aspect ratio greater than 2 and less than 1,000,000.

5 (Original). A product comprising nanomaterial of claim 1.

6 (Withdrawn-Currently Amended). The metallic nanomaterial of claim 4 wherein the nanomaterial comprises an element selected from the group: silver, gold, platinum, palladium, ruthenium, copper, tantalum, niobium, indium and rare earth elements.

7 (Withdrawn). A product comprising nanomaterial of claim 4.

8 (Currently Amended). An inorganic nanomaterial comprising nitrogen ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 1,000,000.

9 (Original). A product comprising nanomaterial of claim 8.

10 (Currently Amended). An non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 ~~and less than 1,000,000.~~

11 (Original). A product comprising nanomaterial of claim 10.

12 (Currently Amended). An inorganic nanomaterial comprising phosphorus ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 1,000,000.

- 13 (Original). A product comprising nanomaterial of claim 12.
- 14 (Currently Amended). A polymeric nanomaterial ~~with~~ having an aspect ratio greater than 2 ~~and less than 1,000,000~~.
- 15 (Original). A product comprising nanomaterial of claim 14.
- 16 (Currently Amended). A non-oxide nanomaterial ~~with~~ having plate like morphology and an aspect ratio greater than 5.
- 17 (Original). The non-oxide nanomaterial of claim 16 wherein the nanomaterial is non-stoichiometric.
- 18 (Original). A product comprising the nanomaterial of claim 16.
- 19 (Currently Amended). A nanomaterial with faceted morphology ~~with~~ having an aspect ratio greater ~~than 2 and less than 1,000,000~~ than 5.
- 20 (Original). A product comprising the nanomaterial of claim 19.
- 21 (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises sulfur.
- 22 (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises selenium.
- 23 (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises tellurium.
- 24 (Withdrawn). The nanomaterial of claim 4 wherein the nanomaterial comprises two or more elements.
- 25 (Withdrawn). The nanomaterial of claim 8 wherein the nanomaterial comprises three or more elements.
- 26 (Withdrawn). The nanomaterial of claim 10 wherein the nanomaterial comprises three or more elements.
- 27 (Withdrawn). The nanomaterial of claim 12 wherein the nanomaterial comprises three or more elements.

28 (Withdrawn). The nanomaterial of claim 1 wherein the surface of the nanomaterial has been reacted with a precursor.

29 (Withdrawn). The nanomaterial of claim 4 wherein the surface of the nanomaterial has been reacted with a precursor.

30 (Withdrawn). The nanomaterial of claim 8 wherein the surface of the nanomaterial has been reacted with a precursor.

31 (Withdrawn). The nanomaterial of claim 10 wherein the surface of the nanomaterial has been reacted with a precursor.

32 (Withdrawn). The nanomaterial of claim 12 wherein the surface of the nanomaterial has been reacted with a precursor.

33 (Currently Amended). A ~~compositionally uniform~~ nanomaterial comprising chalcogenide ~~with~~ wherein the nanomaterial has an aspect ratio greater than ~~[[2]]~~ 5 and less than 25.

34 (Previously Presented). A product comprising nanomaterial of claim 33.

35 (Currently Amended). An inorganic nanomaterial comprising nitrogen ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

36 (Previously Presented). A product comprising nanomaterial of claim 35.

37 (Previously Presented). A non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

38 (Previously Presented). A product comprising nanomaterial of claim 37.

39 (Currently Amended). An inorganic nanomaterial comprising phosphorus ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

40 (Previously Presented). A product comprising nanomaterial of claim 39.

41 (Previously Presented). A polymeric nanomaterial with aspect ratio greater than 2 and less than 25.

42 (Previously Presented). A product comprising nanomaterial of claim 41.

43 (Previously Presented). A nanomaterial with faceted morphology with aspect ratio greater than 2 and less than 25.

44 (Previously Presented). A product comprising the nanomaterial of claim 43.